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Figure 3: Audio Spectrum Analysis and Feature Extraction

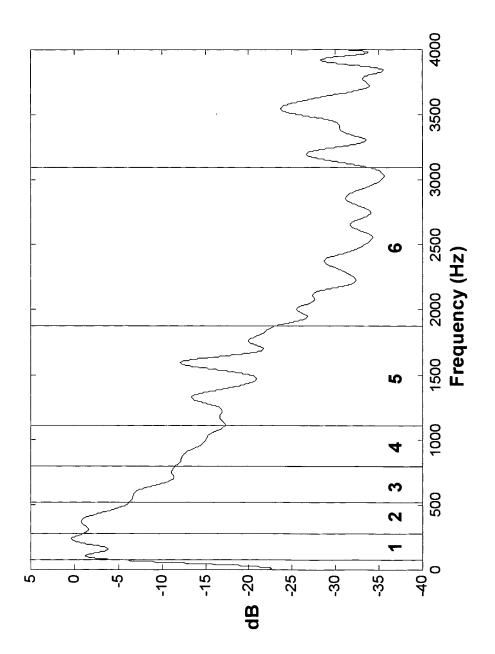
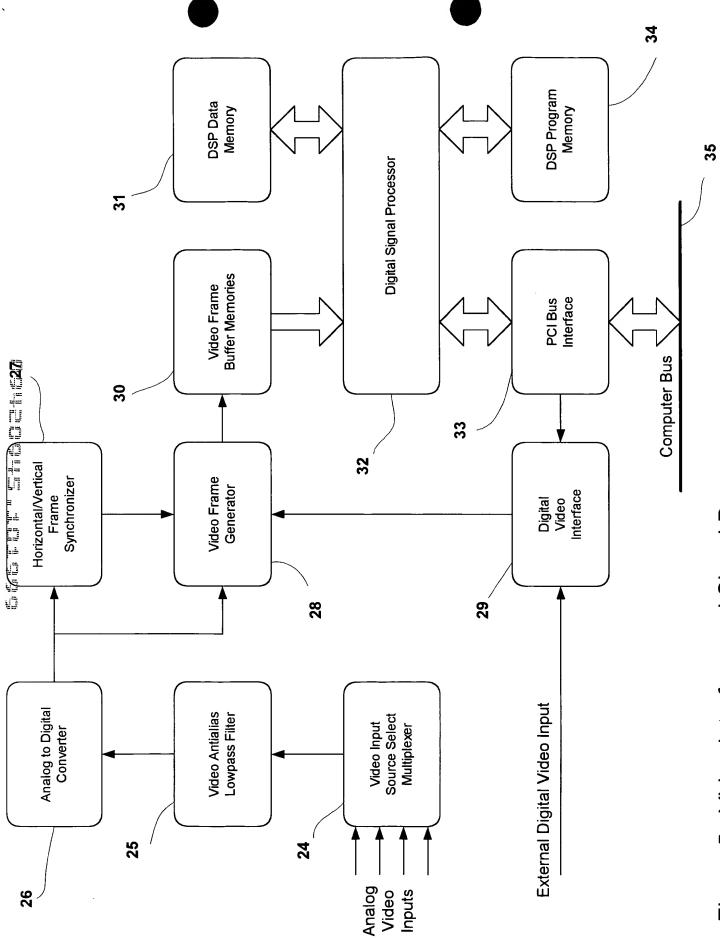


Figure 4: Audio Spectrum Analysis Bands



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Figure 5: Video Interface and Signal Processor

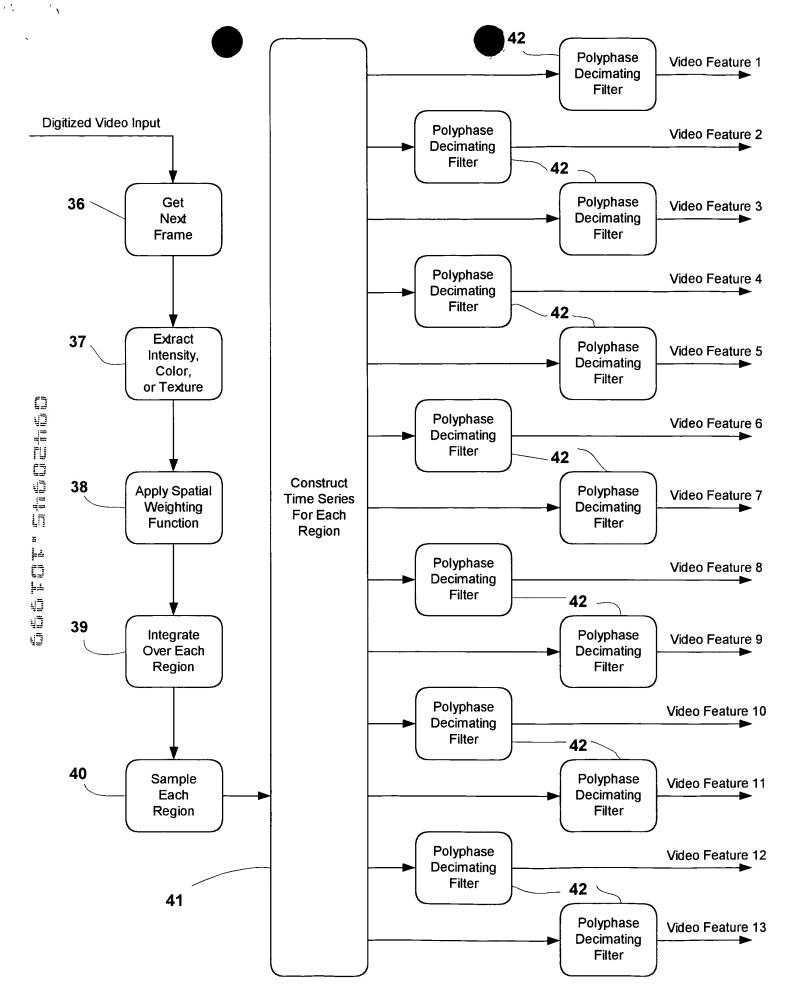


Figure 6: Video Pre-Processing and Feature Extraction

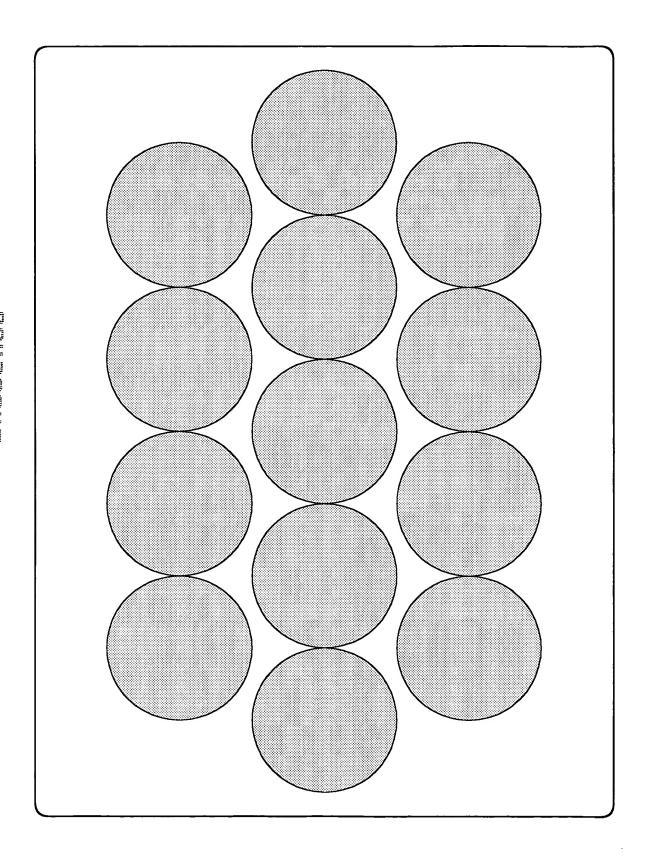
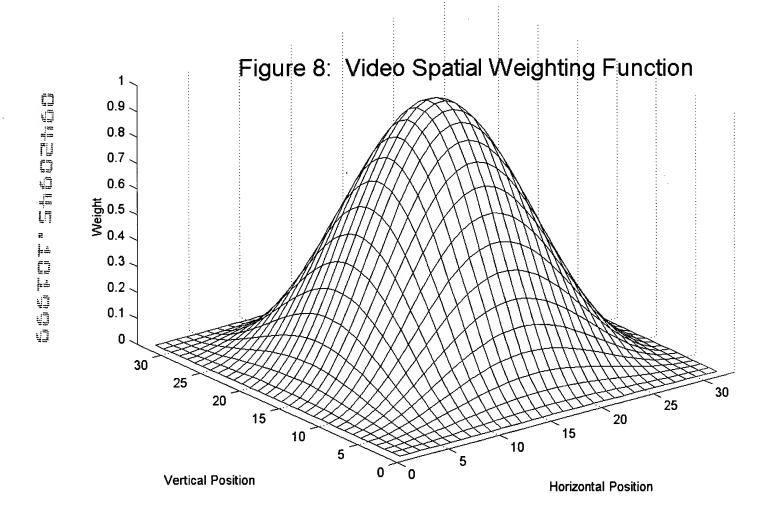


Figure 7: Video Feature Extraction Regions



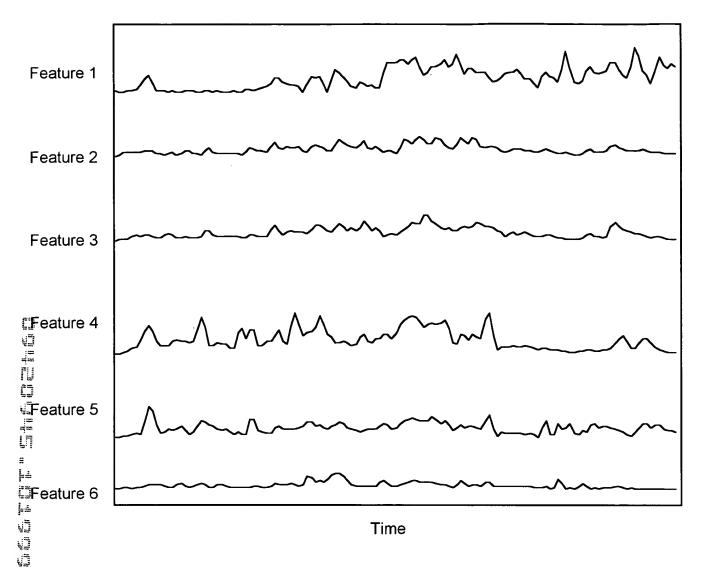


Figure 9: Example Feature Waveforms

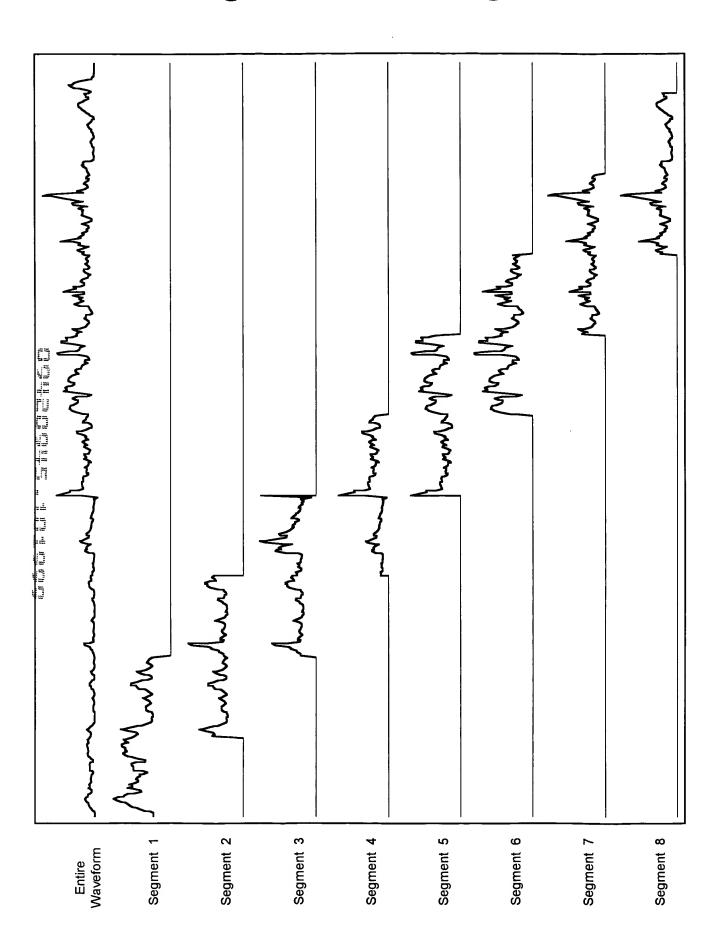
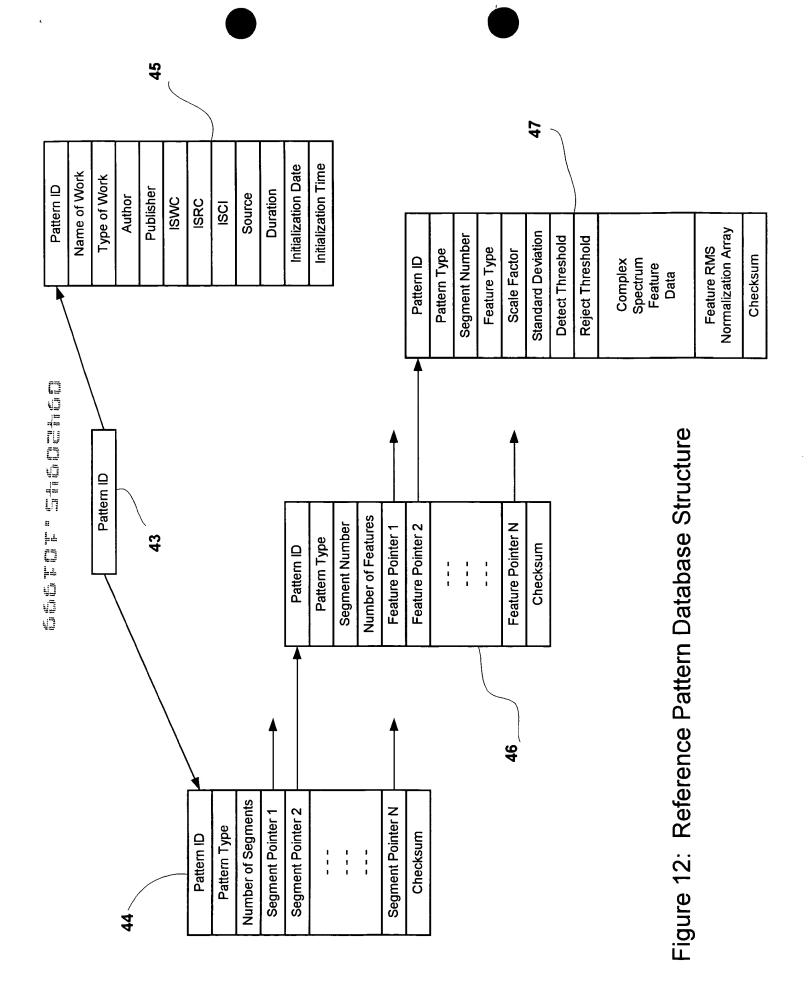


Figure 10: Reference Feature Waveform Segmentation

Figure 11: Reference Pattern Initialization



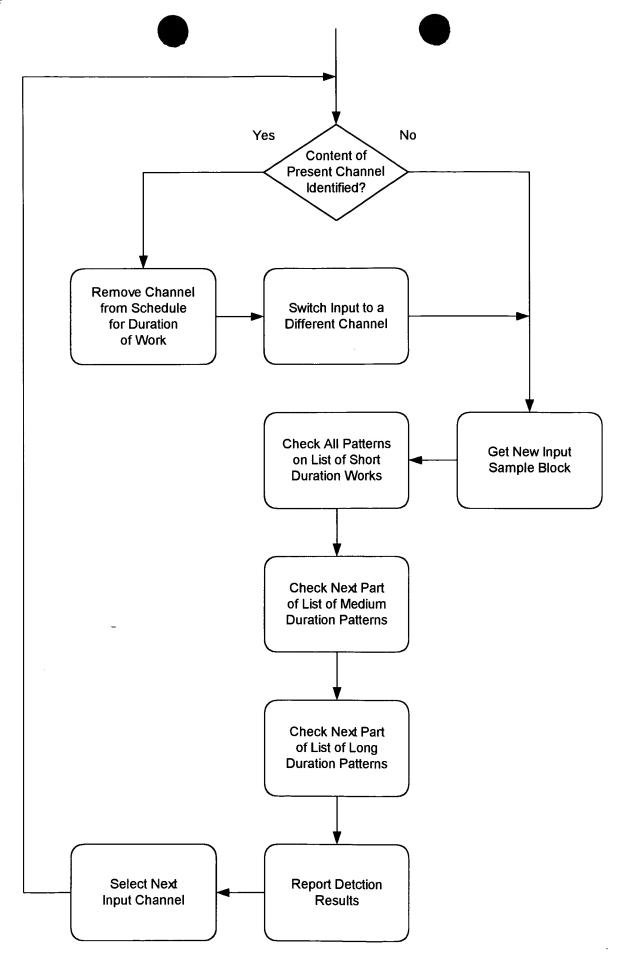


Figure 13: Input Channel and Pattern Scheduler

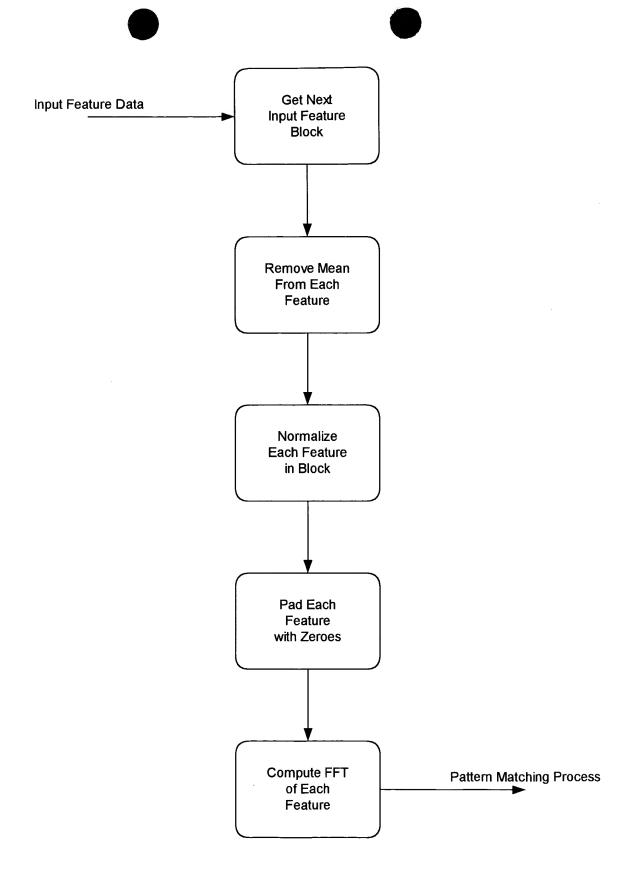


Figure 14: Real-Time Feature Block Pre-Processing

"H" H" H" H

Figure 15: Multiple Feature Correlation Process

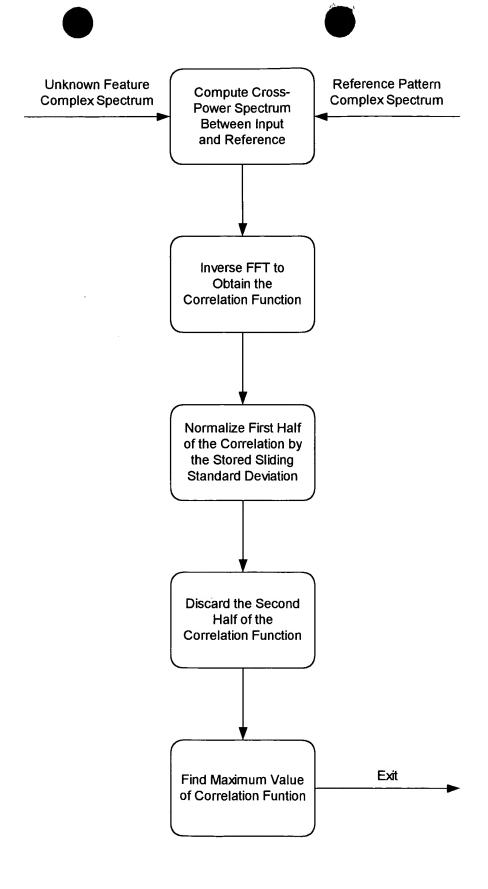


Figure 16: Feature Correlation Process

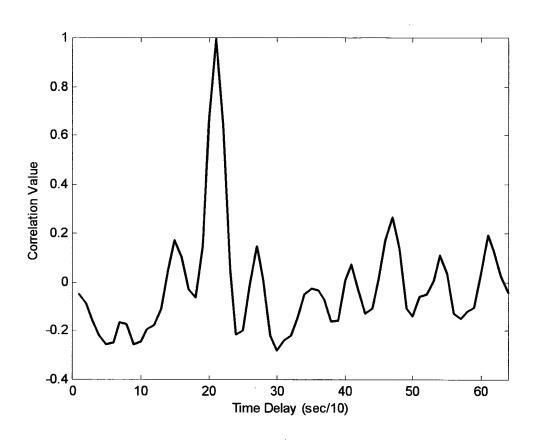


Figure 17: Example Feature Correlation Function

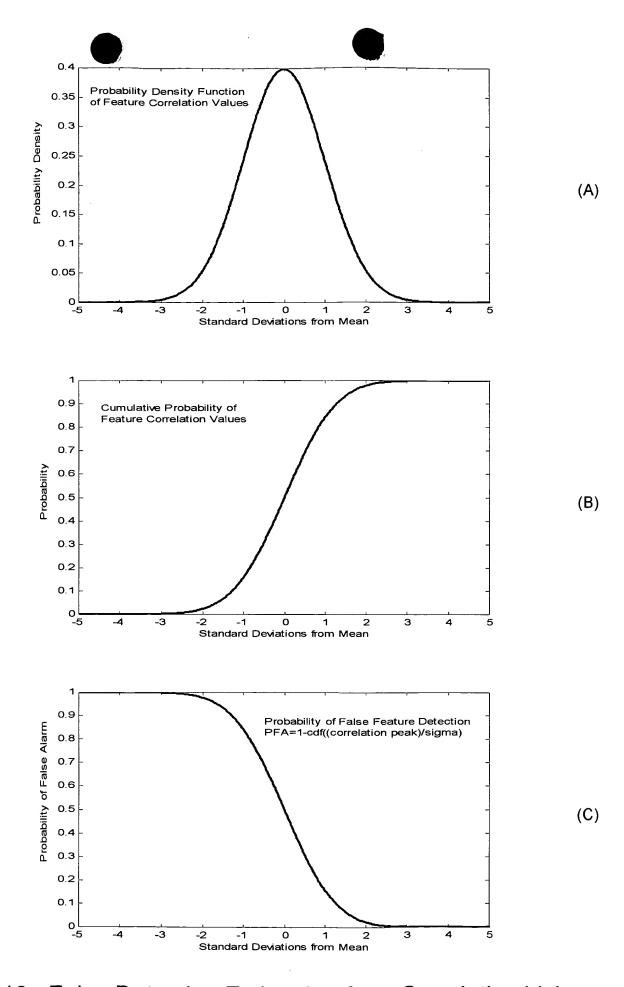


Figure 18: False Detection Estimation from Correlation Values